



THIRD BRAKE LIGHT ANTENNA ADAPTER

2015 + F150 Truck Body | 2017 + Super Duty
2017 Raptor W / Aluminum Body



INSTALLATION MANUAL

INTRODUCTION

Thank you for your purchase of our vehicle specific Third Brake Light Antenna Adapter! We hope that you find the installation simple and straightforward. As our customer, your satisfaction is important to us, and for that reason we take pride in all of the products that we design and manufacture to ensure a reliable solution for years to come!

Pre-caution

Upon completing the installation of the Third Brake Light Antenna Adapter the overall height clearance of the vehicle will have changed. Beware of your surroundings and heed all height restriction warnings as they pertain to your vehicle to avoid damage to the antenna, adapter or even vehicle.

Warranty

At Neal Technologies, Inc we know that if we don't take care of the customer, someone else will. That is why we strive to make each and every customer experience as wonderful as possible.

With regards to our Third Brake Light Antenna Adapters, we offer a 1-Year Parts-Only Warranty.

The limitations include:

- Parts-only, exchange-only warranty.
- Warranty is limited to defects in workmanship and materials.
- Shipping is NOT included with warranty returns.

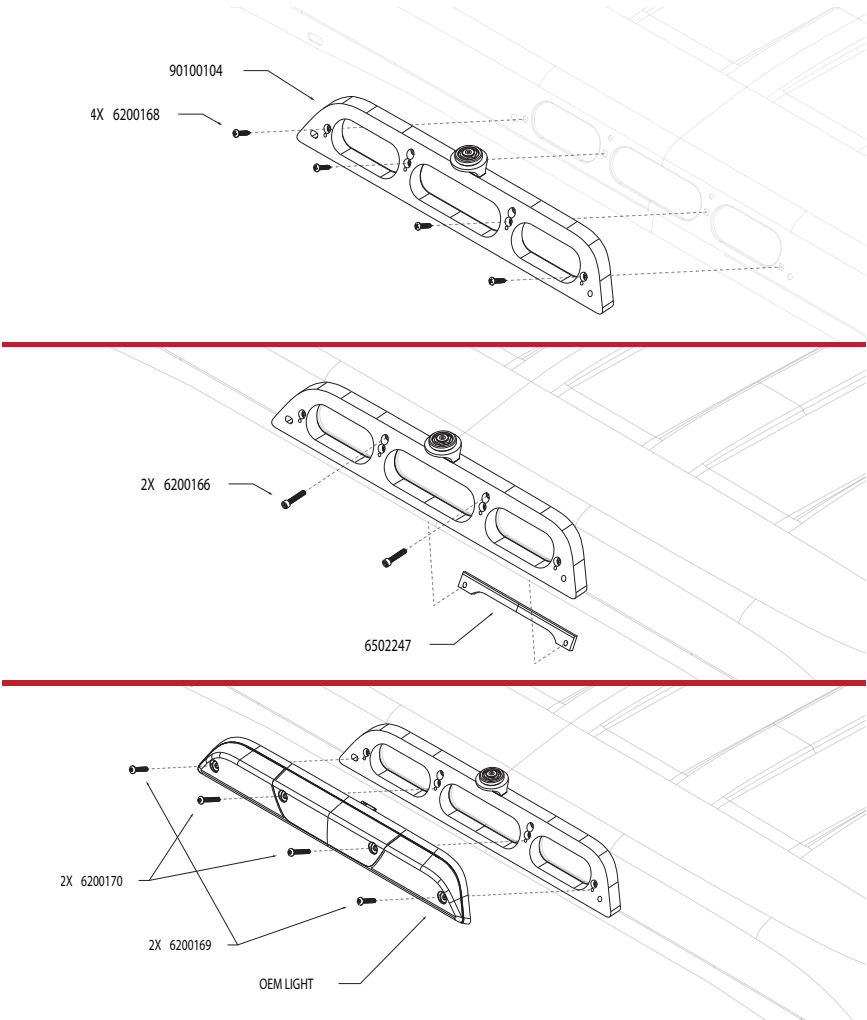
In the very rare event that you might actually have a warranty claim, we will be more than happy to assist you. Please call before you take action. We want to track and properly handle any warranty claims. You will need to contact our team at 888-967-6653 or 480-247-2331 and we will help you with your options and return.

Tools needed for installation

- Phillip Screwdriver
- Nut Driver; 9/32" (7mm)
- Allen Wrench; 5/32" & 1/8"
- 3/16" Drill Bit
- Drill



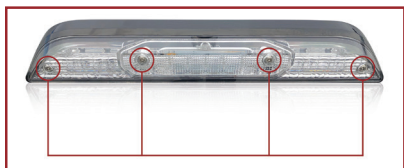
Parts List - 90201129



Part#	Description	Qty.
90100104	2015 + F150, 2017 + Super Duty Antenna Mount Assembly	1
6502247	2015 + F150, 2017 + Super Duty Antenna Mount Support Bracket	1
6200166	#10-24 x 1" Socket Head Screw, 18-8 SS	2
6200168	#8 x 7/8" Pan Head Sheet Metal Screw, 18-8 SS	4
6200169	#10-24 x 1" Button Head Cap Screw, 18-8 SS	2
6200170	#10-24 x 1 1/4" Button Head Cap Screw, 18-8 SS	2

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PLEASE NOTE:

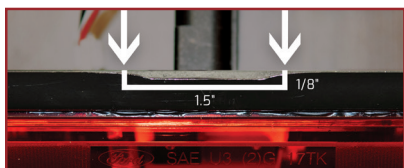


Due to normal manufacturing variances within the Ford brake light unit, you may need to enlarge the holes in its plastic housing in order to accommodate the included panhead screws.



Tech Tips for third brake light antenna with back-up camera

Use the two center screws to secure the antenna adapter to the lens hand tight. Remove the screws and separate the adapter from the lens.



You will see a slight indentation. Use these markings as a guide to carefully file the lens housing for clearance.

You will need to trim approximately 1/8th" deep by 1.5" long as shown.

REMOVE LIGHT



INSTALLATION INSTRUCTIONS

Fig. 2-3 Using a 9/32"(7mm) nut driver, remove the four (4) screws holding the housing in place and pull away from the cab.

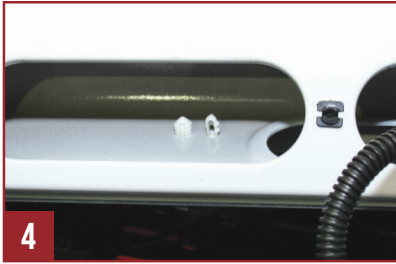


Fig. 4-7 Disconnect the light housing at the pigtail connector - not at the light. Access the connector by pushing down on the clips and pulling through the opening on the right.

Disconnect by pressing down on the retaining clip, then slide away from each other. Place the removed housing in a safe location to be re-installed later.



INSTALL ADAPTER

Fig. 8 Route the antenna cable into the cab - follow the brake light harness. From inside the cab, access the cable and route to final desired location.

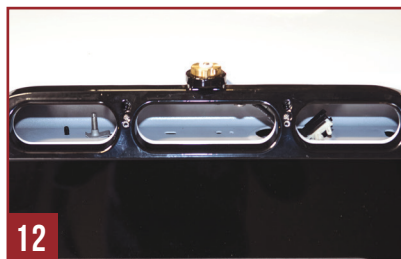


Fig. 9-12 To attach the antenna adapter, align and attach the adapter utilizing the four (4) factory mounting holes and the provided phillips pan head screws.

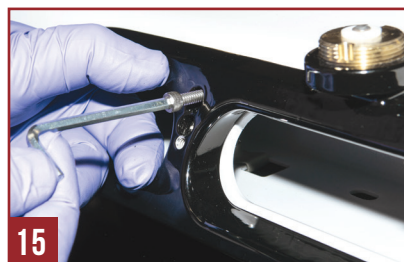


Fig. 13-15 Keep the adapter secured in place. Using the adapter's two (2) top center holes as a guide, drill through the truck body with a 3/16" bit. Next, feed the support bracket through the middle hole of the adapter. Slide the support bracket behind

the adapter *and* the truck body then, match up the support bracket's holes with the ones you just drilled. Use the provided socket head cap screws to secure the support bracket in place.

RE-INSTALL LIGHT

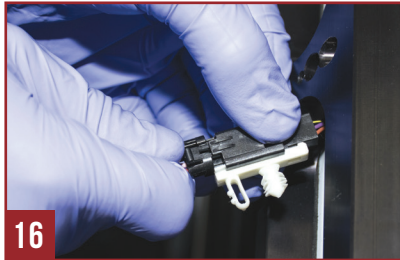


Fig. 16 Re-connect the light housing in the reverse manner as removal. With the power harness attached, route back through the opening and with the clips aligned with the small openings push up to attach backing plate.

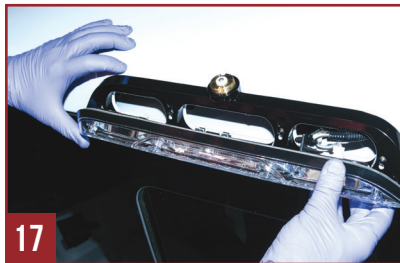


Fig. 17-19 Re-install the light housing utilizing the provided longer button head cap screws for the middle two (2) holes and the shorter button head cap screws for the outer two (2) holes. With the 3rd Brake Light Antenna Adapter installed, attach

desired compatible antenna with NMO standard threaded antenna connector and fasten the PL-259 male UHF connector to preferred 2-way radio.



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